

PhilMont Mobile Race Club

The BLURB



• W3QV • W3TKQ • W3RQZ •

THE

Apollo SATURN V

INFO: CREDIT: N.A.S.A.



LAUNCH ESCAPE SYSTEM

PITCH MOTOR
3000 LB TH

TOWER JETTISON
40 000 LB THRUST

APOLLO COMMAND
MODULE

12 CONTROL ENGINES
88 LB THRUST @

SERVICE MODULE
1 ENGINE 21,900
LB THRUST

LUNAR MODULE
1 ASCENT ENGINE
3500 LB THRUST
1 DESCENT ENG.
10,000 LB
THRUST

3RD STAGE

1-J-2 ENGINE 200 000 LB THR.
4-RETRO-MOTORS 35,000 LB THR.

66 000 GAL. LIQUID HYDROGEN
20 000 GAL. LIQUID OXYGEN

2ND STAGE

267,000 GAL LIQ HYDROGEN
87,000 GAL LIQ OXYGEN

8-ULLAGE MOTORS EACH AT
22 000 LB THRUST

5-J-2 ENGINES 200,000 LB @

FIRST STAGE

246,000 GAL LIQ. OXYGEN

214,000 GAL KEROSENE

8-RETRO-MOTORS 87,000 LB THRUST @

5-F-1 ENGINES 1,500,000 LB THRUST @

TOTAL OF 91 ENGINES LIQUID & SOLID
LIFT-OFF WEIGHT- 6 MILLION LBS.

OVERALL HGT OF
VEHICLE 363 FT.

The BLURB is published monthly by and for the members of the Phil-Mont Mobile Radio Club, Inc. Our purpose is to further the interest of amateur radio in general and mobile radio in particular. We endeavor to keep the news accurate, interesting and educational. Copying and quoting is permitted, with a credit line and we gladly exchange subscriptions with other clubs.

DEADLINE: All material must be in the hands of the Editor before the 15th of the month preceding issue. The BLURB is mailed on the last Monday of each month.

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K3HIE; W3KN
W3QQH
W3VVS

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Fred Shaw, W3ADV(E70); William Bubeck, W3YHV-(A68);
Paul Bohlander, W3VVS(A68)

CLUB STATIONS

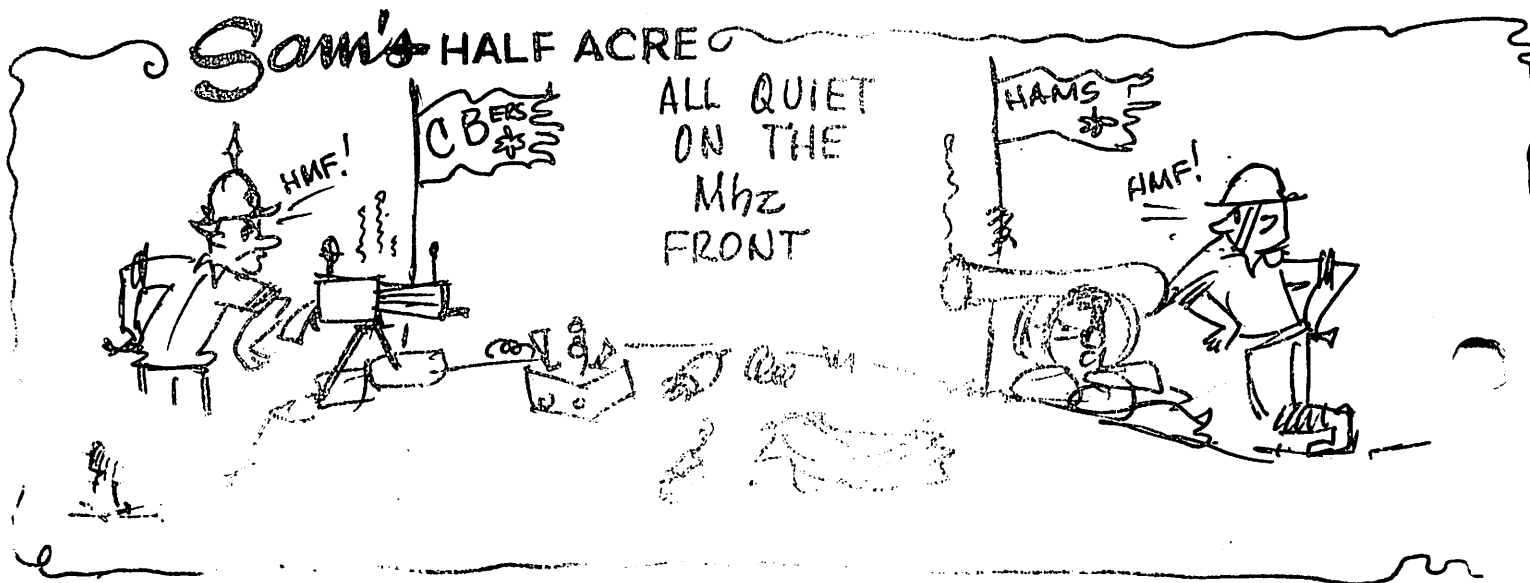
W3TKQ-Fred Shaw-Trustee
The Franklin Institute
Philadelphia, Pa.

W3RQZ-R.G. Thomas-Trustee
Town Hall, Germantown
Philadelphia, Pa.

W3QV-C. Spencer-Trustee
Abington Township
Pennsylvania

CLUB NET & FREQUENCIES

29.493mc-1000 Sunday (10-on-10) monitored daily; 29.626mc 2nd Freq.; 3993kc
SSB-0730-0845 daily; 50.7mc; 52.525mc(FM); 147.78mc.



THE PREZ SEZ

Just to put you young cats straight, I think it only fair to point out that the up-coming "Old Timers Night" may well be quite different from what you may expect.

First of all, the "old timers" who attend will not, repeat not be coming in wheel chairs or even with canes. You see, an "Old Timer" is not necessarily an old man who, for reasons of senility, can no longer stand the mad pace of Philmont. Would you believe - we have some old timers who are still active in Philmont?

For instance, one doesn't get calls such as ADY, AES, AHP or AJO unless one is old - I mean, old! And then there's QQH and VVS. Now, both these old gents stammered in their youth. In truth, their original calls were QH and VS. They stumbled over there calls so often, the FCC took pity and modified them as we know them today. They, the FCC, even went so far as to give one of them a second call of BBB, or was it BB? As far as their ages are concerned, only their hairdressers know.

So, you see, "Old Timer" is merely a term, coined to include those who have spent many fruitful years with Philmont and, for reasons best known to themselves, are unable to continue their former activity. None the less, they still revere Philmont, and deserve our wholehearted welcome.

Remember, some day you too will be an old timer. The alternative leaves one cold.

73, W3KN

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PHIL-MONT CALENDAR

Monday	November 4	Regular Meeting, Franklin Institute Program: Old Timer's Night; Nominations Pre-meeting dinner: Contact W3JGB
Friday	November 15	Deadline for December BLURB
Wednesday	November 20	Midmonth Meeting, at W3ADY
Monday	December 2	Regular Meeting - Election of Officers

THE EDITOR'S VIEW

ED was away on a one month vacation beginning September 13, during which time the wheels of the BLURB were kept spinning by W3YHV. Bill had the cover photo, taken by ED one steaming night last summer at KN's shack, processed and printed. He also wheedled printing of the rest of the paper through one of his many "contacts". If you noticed the uniformity and clarity of last month's reproduction you have seen a sample of the fine quality that can be produced by the offset printing process when a modern press is used. Someday maybe the BLURB's ship will come home to roost (?) and these fine results will be produced every month. Anyway, TNX to Bill, and also to W3VVS who furnished ED with a lot of club news for this month, and to W3ADV for his excellent technical narration.

The request for letters for publication in the BLURB has resulted in deathly silence. Well, there is an item on the next page that may change all that. Let the rest of us know what you think of this or any other aspect of club operation. Just write down your comments and mail them to the editor.

About that vacation - had a nice time travelling in England, Netherlands, Germany, Austria and Switzerland. It rained almost every day for a month, but we had many pleasant experiences.

* * * * *

BOND REDEMPTION

The club is now paying back money borrowed by the sale of \$25 Bonds used for financing the purchase of our Comm Bus last year. Those who hold one Bond may redeem it by sending it to W3KN. Those who hold more than a single Bond may redeem ONE of them at this time through KN. One member has donated the money for his Bond, with a suggestion for its use, to the club; three others have expressed a desire to not redeem their Bonds at this time. The Treasurer, K3NYL, will open a savings account for deposit of this money and for other excess funds belonging to the club in order to obtain interest on the money. Only a small working-fund will be kept out of saving account.

DUES INCREASE CONSIDERED

There has been something of a joke for about the last eight years regarding the dues structure of the club. There is a serious factor, however, that has been assuming greater importance each year, and it is the opinion of many that continued operation of Phil-Mont on the present basis will only be possible with an increase in income. Suggestions for raising funds by raffles or other gimmicks have been received with less than enthusiasm. And the bond issue to obtain money for our Comm Bus is felt to have been a good solution to a unique circumstance that should not be repeated. In short, we should either live within our existing income by reducing the scope of our activities, or we should consider a legitimate increase in income to cover the gradually increasing cost of the operation and expansion of the club.

Examination of this year's budget reveals that most of our outlay is accounted for by Comm Bus renovation and the BLURB. While renovation costs may be expected to decline, there will still be expenditures for expansion of radio facilities and normal operation of the vehicle. Furthermore, maintenance costs can be expected to rise as the bus ages. In the case of the BLURB, beside the doubling of mail rates in the past ten years, it has been our policy to make continued improvements in the production of the paper on the basis that the BLURB has been the one factor most responsible for making Phil-Mont a cohesive group over the years. To continue improving our coverage and quality will require somewhat higher expense than is now incurred. Finally, there are the many other expenses related to club operation - Field Day chow, W5TKQ, insurance and the Treasurer's favorite, "Miscellaneous" - that have been constantly on the rise.

The day is rapidly coming when it will be necessary to decide whether Phil-Mont should continue to advance, or whether we should backslide to obscurity. These days there is no such thing as remaining static.

At the October midmonth a motion was introduced to increase the dues for Regular Members from six dollars per year to eight dollars, and to raise Associate membership from rate of three dollars per year to four dollars. In the

DUES INCREASE CONSIDERED (Cont'd)

discussion that followed it was decided to delay action on the question until after the November Regular Meeting to allow a full airing of opinions. Another proposal was to introduce a Student membership grade with full voting rights but at one-half the Regular membership rate in order to encourage young hams to join the club. If you cannot get to the November meeting, or if you want your ideas to reach as many other members as possible, write to ED; we will publish all sides. But make your opinion known.

* * * * *

A NO-FIELD -DAY FIELD DAY

Why not have a Phil-Mont "No-Field-Day" Field Day? This would be a big fun-type operation where the bus would lead the mobile caravan to an ideal field day site on a Saturday morning. Antennas would be set up for all bands and operations would begin. A mess (kitchen) would be set up and food and soft drinks would be available. Provisions for tents and camping facilities would be set up also. It would be a time for eyeball qso's, general good fun, visits from club members, transmitter hunting, and some hamming too! All types of portable, emergency, and mobile equipment could be checked at this time. Prizes for the best score too! Camping overnight. Sunday afternoon at 3:00 p.m. the No-Field-Day Field Day would end and all would pitch in, break camp, and go home. For those who didn't take part in the Saturday morning caravan, the finding of the site location represents a good exercise in hidden transmitter hunting. How about a No-Field-Day Field Day?

de W3VVS

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OCTOBER AUCTION

For several reasons, the auction this year was not exactly a success. This can be attributed both to the loss of our "Master Auctioneer" W3WNC, and also to the growing commercialization of hamradio which has diminished the importance of components and surplus gear. There was talk of abandonment of the auction or of simply having a free-lance auction. The Program Committee will take suggestions under advisement and offer a definite plan later.

AN INTERESTING EXPERIENCE

During the telephone strike early in 1968, WPHL-TV Channel 17, ordered in two video STL's (Studio-Transmitter Links), between their studio in Wyndmoor and their new high power transmitter in Roxborough. The installation was made on short notice by the only people available at the time - management people.

The circuits had been engineered sometime prior to the installation and the computed gains and losses were established on paper. Both circuits were to be combined so that the RF signals would use the same wave guide, parabolic antennas, etc. This method necessarily means that some filters and circulators are required. Each of these units has some insertion loss.

COMPUTED GAINS AND LOSSES

Air Path Loss	3.5 MI.	11 KMHZ	132 db
Ant gain - trans.	4 ft.	parabolic	41 db
" " - Rec.	"	"	41 db
Filter loss			3.2 db
Circulator loss			.5 db
Wave Guide Losses - Both ends			6.5 db
Total gains			82 db
Total Losses			142.2 db
S/N on Recovered Video Signal			67.5 db
Net Path Loss (Losses minus gains)			60.2

When the circuits were working (?) the S/N was measured and found to be 46 db. Needless to say, this was a far cry from the expected 67.5 db that had been computed. The reflector on the Roxborough tower and the two antennas were frantically readjusted - to no avail. Since WPHL with their brand new gear, was ready to go on the air, something had to be done quickly. The quickest thing was to substitute 8 foot antennas in place of the 4 foot ones, for a net gain of 6 db per antenna. (8 foot antenna has 47 db gain) Then the S/N measured 59 db, just within that required to provide a noise-free picture.

After the strike was over and people were again available, it was my job to find out what caused the excessive (about 22 db) net path loss. Since the station was on the air every day, all testing had to be done at night. Transmitter output power, wave guide losses, receiver sensitivity, and the losses of all components of the circuit were accurately measured. The trouble was located

AN INTERESTING EXPERIENCE (Cont'd)

in the wave guide between the receiving antenna and the receivers at Roxborough. Well, I could hardly believe the test equipment because the wave guide was only 75 feet long and should have had a loss of about 2.5 db but it measured 22 db. A "careful" inspection of the wave guide was made in place, but nothing was found. So we had a new 75 foot piece shipped from the manufacturer and several nights later installed it while I held my breath watching the signal level meters. As the connections were made the signal level on each receiver jumped approximately 100 points higher than ever before. What a relief! Measurements were made again and believe it or not the measured results were within a half db of the computed values, which just goes to show you - hi!

Incidentally, the wave guide was made of corrugated, elliptical copper, polyethylene covered and is flexible within limits, so that it is rather easy to install.

Oh! You want to know what caused the trouble? Well, we took the old wave guide back to the shop, cut it in half and the trouble was in one half. So we cut that piece in half and the trouble was in one half only. We "very, very" carefully inspected that piece and concluded that it had wrong dimensions, possibly due to some fault in extruding at the time of manufacture. The manufacturer would not pay us for all of our extra trouble (hi!) but did give us a new 75 foot piece of wave guide.

Fred W3ADV

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NOMINATIONS FOR CLUB OFFICERS NOW OPEN

This year the Nominating Committee has for its Chairman, W3ADV, who will be assisted by members W3GOW, W3QQH and W3YHV in ferreting out qualified members who will run for the various club offices. All offices must have at least two nominees. Nominations may be made by anyone at the November Regular meeting, so if you wish to add to the slate prepared by the committee you may do so, but the person nominated must agree to run BEFORE his name is placed in nomination. This has avoided the silly embarrassment that many organizations suffer when presented with one candidate after another who "does not choose to run", and has always provided us with a diversified group who

NOMINATIONS (Cont'd)

want to run for office. Nominations will be closed at the conclusion of the November meeting.

SPECIAL NOTICE: In order to encourage discussion of issues affecting Phil-Mont, and to make the views of candidates known to all our members, the BLURB will make available to each presidential candidate space for a 300-word statement of his views. All presidential candidates are earnestly requested to avail themselves of this opportunity.

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OLD TIMER'S NIGHT AT NOVEMBER MEETING

Many of our old friends whose activity in Phil-Mont has subsided will pay us a visit for an OT night this month. It will be fun to swap tales once more of past Almo Shows, barrel modulation, transmitter hunts, and mobile exploits. There will also be tape recordings and pictures of yore.

A dinner is planned for the night of the meeting. It will be at Williamson's Restaurant in the Barclay Building on City Line at 6 PM. Dinner will be ordered individually from the menu. Contact W3JGB if you wish to attend the pre-meeting dinner.

* * * * *

OT NIGHT COMPETITION

Sorry I do not qualify as a HAM oldtimer.
First station I was in charge of was in 1928.

Sorry I do not qualify as a DX'er.
But that first station was operated by an IRISH op licensed in ENGLAND with a ticket obtained in WALES. The station was on a GREEK ship under control of a FRENCH company operating from an office in BELGIUM. The gear was built and installed in GERMANY during WWI. Station data was printed and issued in SWITZERLAND. Call letters were THWT, operating with spark on 600, 450 and 300 meters.

How about an "Odd Ball Night"?

K3EZJ

PHIL-MONT AWARDS FOR 1968

Once again the time has come when Phil-Mont presents awards to the membership - only this year the scene is different. This year, in lieu of a presentation at a formal banquet, awards will be presented at the regular December meeting.

To refresh your memory, the following is a brief summary of Phil-Mont awards:

1. Le Roy Hauser Memorial Award

An award made to a member for an outstanding single or multiple contribution to the Club. This award is not necessarily awarded annually.

2. Phil-Mont 1968 Award

An award made to a member for a single contribution or for continuous effort on the part of the member on behalf or in the interest of Phil-Mont and Amateur Radio.

3. Lady Phil-Monter Award

An award to the fair sex, usually the wife of a member (she is not required to hold a license) for a contribution or continued support of Phil-Mont or Amateur Radio.

4. IDUABMUG Award.

A fun-type award to a member who has committed the biggest "goof" of the year.

Some expressions of thought have been received from members in the past to the effect that - "what's the use, why vote (nominate), the committee will judge anyways"; "it's a popularity contest"; "doesn't represent a majority opinion of the membership"; or "why not just give it to our real sparkplug every year?" However true, these are varied opinions, but doesn't this reflect somewhat the so-called "degree of apathy" which seems to be creeping throughout our ranks? After all, some of our "members" don't even attend our meetings or participate in our activities, so how would they know what is taking place within Phil-Mont? Now, for those of you who are active members, why not see it as it is, and nominate an individual for an award only if deserved and, if you feel no one is deserving of an award, say so in the form of your written ballot at the November meeting.

AWARDS (cont'd)

The Awards Committee consists of W3VVS (Chairman), W3ADV, W3CDY, W3GOW, and W3NIP. These able clubmembers receive your nominations in the form of ballots gathered at a regular meeting in the fall of the year (November meeting this year), usually prior to the "annual" banquet. Of course, this year a banquet is not a planned activity for the club, however, this does not mean that someone not among the membership isn't deserving of recognition by the club. The Awards Committee feels that the active membership should seriously review the activities and events of the past year and each determine for himself if there are individuals deserving of an award and official club recognition by Phil-Mont. Remember that an award is not necessarily an "annual" award; it has been stipulated that awards are made only when an individual is deserving of club recognition. Feel free to express your opinions in the matter by contacting a member of the Awards Committee and cast a sincere ballot at the November meeting.

de W3VVS

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NOSTALGIA

Two books to read if interested in early radio broadcast trivia about all the "soap operas", Orphan Annie, Jack Armstrong, One Man's Family, The Lone Ranger, Vic and Sadie, Amos 'n Andy, The Shadow, Story-book Lady, Just Plain Bill, Maw Perkins, and many others. The books are: "The Great Radio Heroes" by Jim Harmon, and "Radio's Golden Age" by Frank Buxton and Bill Owen.

de W3VVS

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DEPT. OF CONFUSION

Did you know that for years and years any half-wave antenna was known as a "Hertz" antenna? No matter if an end-fed, center-fed, or horizontal or vertical antenna the half-wave antenna was classified as a "Hertz" antenna to distinguish it from the Marconi antenna which was a quarter wave and tuned against ground. Now, since we have forced upon us the term Hertz to be used instead of the term cycles, I make the motion that we continue to call "Hertz" antennas "half-wave" antennas and just forget the whole thing. (ED Notes: Maybe we should call half-wave antennas "cycle" antennae)

de W3VVS

SCOOP

Equipment for Ghana is ready for shipment to that country via ARRL. The stuff is packed in forty LICQUOR cases. Now we know why K3BJS wanted the job of coordinator: he had to empty the cases to make room for the radio gear.. K3GNJ displayed his shoemaking talents when one of K3SPS's shoes flew apart at Enle's QTH... W3AWH now operating on a busy personal schedule... W3GIF won Swan 350 at Hamtronics open house. Emporium is located in Trevoise... Luckily for us W3YHV got last month's cover photo processed without expense to the club. ED used to get job done at a walk-up-three-flights litho company whose price was so low they finally went out of business. New quotes are in the 12 to 16 dollar range. May try it ourselves one of these days... Paul had a tough time keeping W3TKQ on the air at Franklin Institute while young lady (?) dismantled telephone outside exhibit booth... In case you're having trouble raising W3VVS on 160, it's because he is still in the process of moving his shack to the basement; now has 80 and 40 meter feed lines lengthened and will use 80 meter ant as a Marconi (or is it a Spaghetti?) against ground... K3KNH has a new antenna and intercom rig on Channel 1.

W3QQH reports Comm Bus now has its own private dial telephone system with ringing current, etc. RTTY equipment is now operating on local loop. Bus was seen by several hundred CD officials when it was shown at CD forum at Casa Conte... While old radio equipment was being removed from QTH of W3HFD, XYL VI expressed her sentiments with a broad smile... W3AAD/M worked Philadelphia area from Boston on two meters using various repeaters that are now in operation on East coast... Ghana project got a generous donation from non-member W3UKZ, friend of W3JKH... During his trip, ED found himself in France for about twelve hours, which was about eleven hours and fifty-nine minutes too long. The French we encountered could hardly have been nastier; they still haven't forgiven the U.S. for liberating their wretched country... W3AJ0 has FM gear on both 2 and 6 now... W3QQH, who has been wanting to get broadcast FM in his truck for quite some time finally solved his problem by buying a new car, permitting him to transfer FM rcvr from old car to truck. New wagon is a New Yorker... K3NYL has his RTTY equipment, including tape gear, operating on dc loop... K3GNJ is accumulating parts and ideas for a transistorized Channel 1 receiver... W3DSP has RTTY on 147.78 Auto-Start and is interested in starting an A/S net or scheduling any RTTY

SCOOP (Cont'd)

contacts on two. There is already a 2 meter net on Monday nights at 7 PM, 146.7 and Tuesdays at 8 PM on 143.7...Noted at St. Davids golf match: QQH getting his lunch in a doggie bag. This must prove he leads a dog's life...Not as much scoop as usual this month on acc/t vacation. Apologies to those who gave ED scoop at September meeting; these items were too late for last BLURB and too old for his one. This shouldn't happen until another one month vacation comes along, which probably will be in about 20 years. More next month.

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OPEN LETTER TO PHILMONT

Barry and I are now settled in our new apartment. Barry is staying with me this year, and is teaching at Drexel Institute.

It has taken us all this time to reorient our possessions, and though everything is not yet as we would like it to be, we can issue an invitation that has been planned for some time.

It would give me great pleasure if, instead of having your coffee at the Institute after the December meeting, you would take the short walk over to the apartment and have coffee with me. I have a large apartment and can accommodate most of you who do come to the meetings.

The address is:

N 1106 Park Towne North
2200 Benj. Franklin Parkway
Telephone number---561-6385

Hy and I were so much a part of Philmont, that I would like it to continue as much as possible.

Sincere regards,

Anne Hecht

W3IRS IN TOP ARMY MARS POST

Effective September 1, Frenchy was appointed Pennsylvania Army MARS Director. He will be giving this job all of his free time. All of Phil-Mont wishes Frenchy success in his new position - he certainly has the ability to administer this post and MARS will be the better for his appointment.

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OFFICIAL BULLETIN NR 190 FROM ARRL HEADQUARTERS NEWINGTON CONN OCT 10 1968 TO ALL RADIO AMATEURS BT

Concurrent with the October 27 shift to standard time throughout the country, W1AW will adopt new code practice and bulletin frequencies. The new channels will be easy to remember at 20 kiloHertz above the lower band or segment edge. Effective October 27, W1AW code practice and code bulletins will take place on 1820, 3520, 7020, 14020, 21020, 28020, 50020 and 144120 kiloHertz. W1AW voice bulletins will be transmitted on 1820, 3820, 7220, 14220, 21270, 28520, 50120 and 144120 kiloHertz. Regular contacts will continue to take place on current W1AW frequencies. Full details on the change will appear in November QST AR.

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SWAP AND SHOP

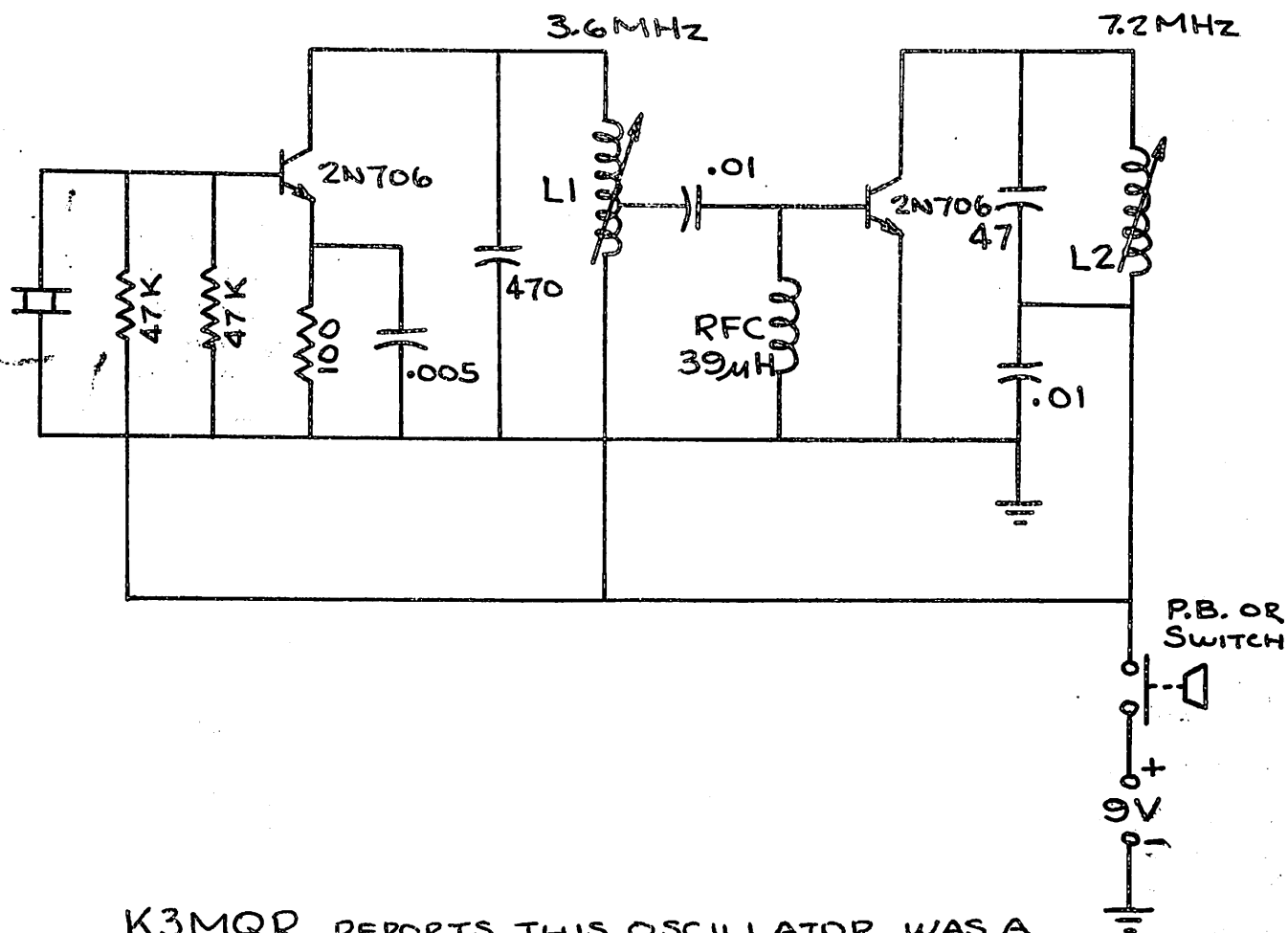
Wanted: A rack panel cabinet for an 8-3/4 inch panel. Color and condition of finish not important, also top can be sold. Gerard A. Baldauf, W3JKH, 175 Wernersville Blvd., Wernersville, Pa. 19565, 215-678-3980, 929-7694.

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TECHNIGRAM

52.525 MHz SOLID STATE OSCILLATOR

DESIGNED BY K3MQR (VIA W3AJ0)



K3MQR REPORTS THIS OSCILLATOR WAS A GREAT HELP IN THE ALIGNMENT OF HIS FM MOBILE RIG ON 52.525 (USING 3.282813 XTAL).

L1 - RESONATE AT XTAL FREQ WITH 470 PF.
TAP 5 TURNS FROM COLD END.

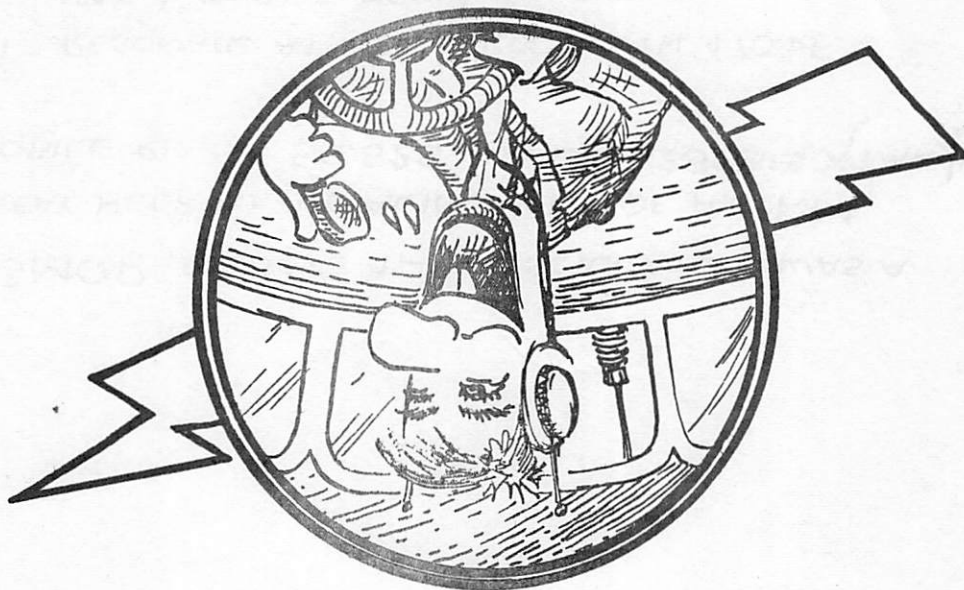
L2 - RESONATE AT 2x XTAL FREQ WITH 47 PF.

BATTERY - MALLORY TRI46R

BURGESS 2U6

EVEREADY 216

PHIL-MONT **MOBILE RADIO CLUB, INC.**



THE "BLURB"

**A PHIL-MONT MOBILE RADIO
CLUB PUBLICATION**

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